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International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : G01N 15/02, 33/80	A2	(11) International Publication Number: WO 00/39560 (43) International Publication Date: 6 July 2000 (06.07.00)
(21) International Application Number: PCT/GB99/04438 (22) International Filing Date: 24 December 1999 (24.12.99) (30) Priority Data: 9828765.9 29 December 1998 (29.12.98) GB (71)(72) Applicants and Inventors: SHINE, Ian, Basil [GB/US]; 444 Central Park West, New York, NY 10025 (US). SHINE, Thomas, Adam [GB/US]; Apartment #3, 220 Lawrence Street, New Haven, CT 06511 (US). (74) Agent: ELKINGTON AND FIFE; Prospect House, 8 Pembroke Road, Sevenoaks, Kent TN13 1XR (GB).	(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>	
(54) Title: A METHOD OF TESTING A CELL SAMPLE (57) Abstract <p>The present invention measures agglutination using a process which is capable of testing how tightly agglutinated cells are bonded by measuring how much force is required to separate them. By causing red cells which are approximately biconcave discs to sphere, the effective surface area available for bonding diminishes. Sphering a cell increases the space between antigen binding sites and increases the mean distance across which bonding occurs. As the surface area available for bonding between cells decreases as cells sphere they lose bonding strength, thus allowing clumped cells to separate. By recording the inducing pressure and the number of cells (or quantities related to it) as they change with respect to the inducing pressure, agglutination can be detected, quantified and monitored. This provides a simple but effective test for blood grouping and cross-matching by introducing an appropriate source of antibodies and detecting whether or not agglutination occurs.</p>		